

Section 10200

LOUVERS

PART 1 - GENERAL

1-1. SCOPE. This section covers the furnishing and installation of stationary type weather louvers.

1-2. GENERAL. Louvers shall be furnished and installed as specified herein and in accordance with the details, louver schedule, or arrangements indicated on the drawings.

Louvers shall be of the sizes required for opening sizes indicated on the drawings. Actual opening sizes for louvers scheduled for insertion within existing construction shall be field verified. Actual louver sizes shall allow for shim and caulk space.

1-3. SUBMITTALS. Complete specifications and detailed drawings covering arrangement, dimensions, hardware, accessories, and details of construction and installation of the louvers shall be submitted in accordance with the Submittals section.

1-4. COLOR SELECTION. Colors of louvers will be selected from the manufacturer's full line of colors by Engineer. Procedures for selecting colors shall be as indicated in the submittals section.

1-5. DELIVERY, STORAGE, AND HANDLING. Shipping shall be in accordance with the Shipping section. Handling and storage shall be in accordance with the Handling and Storage section.

Materials shall be handled, transported, and delivered in a manner which will prevent bends, dents, scratches, or damages of any kind. Damaged materials shall be promptly replaced. Materials shall be stored off the ground and protected from the weather.

PART 2 - PRODUCTS

2-1. PERFORMANCE AND DESIGN CRITERIA.

2-1.01. Governing Standard. Except as modified or supplemented herein, all stationary louvers shall be certified to meet the performance criteria specified and outlined by AMCA Standard 500.

2-1.02. Finishes. Louvers shall have a colored anodized finish.

Colored anodized finishes shall meet the standards of the Aluminum Association AA-C22A44 with 0.7 mils surface depth treatment. The color shall be medium bronze.

2-1.03. Construction. Louvers shall be of aluminum construction and shall be the product of one manufacturer. Louvers shall be furnished complete with all hardware and appurtenances necessary for a satisfactory installation. The louvers shall have extended sills as shown on the drawings.

Stationary type weather louvers shall be architectural style continuous blades with concealed mullions.

2-1.04. Performance Requirements.

2-1.04.01. Stationary Type. The velocity at which the beginning point of water penetration occurs for stationary type weather louvers shall be at least 840 fpm. The minimum free area for a 48 inches x 48 inches louver shall be 54 percent. The maximum static pressure loss at 1000 feet per minute shall be 0.14 inches wc.

2-1.04.02. Acoustical Type. Not used.

2-2. ACCEPTABLE PRODUCTS.

2-2.01. Stationary Type Weather Louvers. Subject to the requirements specified herein, stationary type weather louvers shall be equivalent to the following:

American Warming and Ventilating "LE-49"

Arrow United Industries "EA-410-P"

Ruskin "ELF-375XH"

2-2.02. Acoustical Louvers. Not used.

2-2.03. Brick Vents. Not used.

2-2.04. Accessories. Stationary type louvers shall have aluminum removable insect screens.

2-3. MATERIALS.

Aluminum Extrusions

ASTM B221, Alloy 6063-T5,
minimum 0.125 inch thick.

Insect Screen

18 x 16 mesh aluminum insect
screen.

PART 3 - EXECUTION

3-1. GENERAL. Products shall be installed in accordance with this section, the manufacturer's instructions, and as indicated on the drawings.

Complete specifications and detailed drawings covering arrangement, dimensions, hardware, accessories, and details of construction and installation of the louvers and vents will be made available to the louver and vent installer.

3-2. INSTALLATION. The louvers shall be installed with anchors suitable for the adjacent material and shall be caulked as specified in the caulking section. When required, bird screens or insect screens shall be installed on the louvers.

Where aluminum work is to be attached to steel supporting members or other dissimilar metal, the aluminum shall be kept from direct contact with such metals by a heavy coat of epoxy enamel in accordance with the Architectural Painting section. Aluminum surfaces which will be in contact with concrete or masonry when installed shall be given a heavy coat of epoxy enamel. All paint shall be dry and hard when the coated parts are installed.

End of Section

Section 10990

MISCELLANEOUS SPECIALTIES

PART 1 - GENERAL

1-1. SCOPE. This section covers miscellaneous specialties and accessories of Work not covered in other sections. Abbreviations in parentheses () denote plan references. Included are the following items:

Fire extinguishers (FE).

Carbon canister.

Splash blocks.

1-2. GENERAL. Miscellaneous building specialties and accessories shall be furnished and installed as specified herein and in accordance with the details, arrangements, and dimensions indicated on the drawings. Whether or not specifically indicated or specified, fasteners, gaskets, and sealants shall be provided as required and as recommended by the manufacturer of the specific item.

1-3. SUBMITTALS. Complete specifications, details, drawings, and setting and erection drawings covering miscellaneous specialties shall be submitted in accordance with the Submittals section.

PART 2 - PRODUCTS

2-1. FIRE EXTINGUISHERS (FE). One portable fire extinguisher of the all-purpose, nitrogen-pressured, dry-chemical type shall be provided and installed. The fire extinguishers shall be UL-approved for Class A, B, and C fires and shall have a 10 pound capacity, such as Badger "10ABC", Buckeye "10H-ABC", or Kidde "10TAS". Finish of shell shall be red.

Wall-mounted fire extinguishers shall be mounted on manufacturer's standard brackets at the locations indicated on the drawings, at a height of 5 feet above the floor, or as directed by the Engineer.

2-3. CARBON CANISTER. One carbon canister shall be provided and installed for odor control. Canister shall be "High Flow Vent Sorb", as manufactured by Calgon Carbon Corporation or equal. Canister shall be reusable, modular, and constructed of materials that will not corrode when exposed to concentrated wastewater gases. The canister shall be loaded with 225 pounds of Centaur granular activated carbon as manufactured by Calgon Carbon Corporation or equal. Pressure drop through the unit shall not exceed 7 inches of water at an air flow of 400 cfm at 70°F.

2-4. SPLASH BLOCKS. Precast reinforced concrete splash blocks shall be provided for roof drain leaders where indicated on the drawings.

The block shall be approximately 16 inches wide by 48 inches long by 5 inches high with curbs on three sides. The splash portion shall be sloped from not less than 1 inch depth at the inlet end to not less than 2 inches at the outlet end. The block shall be reinforced with not less than WWF4X4-W4XW4 welded wire fabric.

2-5. PROTECTION. All accessories shall be protected during fabrication, shipment, storage, and erection to prevent damage. Damaged units will be rejected and shall be replaced at no additional cost to the Owner.

PART 3 - EXECUTION

3-1. MISCELLANEOUS SPECIALTY ITEMS. All miscellaneous specialty items and equipment shall be furnished complete with all accessories, mounting hardware, caulking, fasteners, adhesives, trim, etc., whether specifically called for or not, for complete and proper mounting in or on surfaces indicated.

3-2. MOUNTING AND INSTALLATION INSTRUCTIONS. Mounting and installation instructions shall be furnished by the manufacturer for all items. Contractor shall follow manufacturer's instructions and shall include all blocking, backing, etc., whether called for or not, for proper installation. All items shall be installed straight, plumb level, and rigid in accordance with manufacturer's instructions.

End of Section